

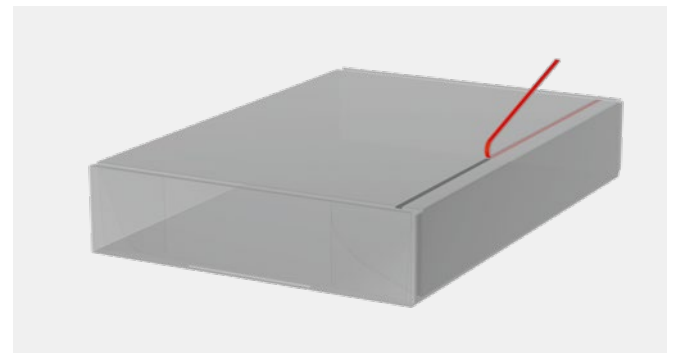
# Smart opening for more sustainable designs



Paper-based tear tapes for reliable and efficient opening of packaging

## The challenge: sustainability without compromise

Packaging made of paper or board reliably protects valuable goods during transport and storage – and is increasingly expected to be easily recyclable. Meanwhile, packaging should deliver a positive unboxing experience for consumers or enable fast, practical unpacking at retailers. Smooth, reliable opening is essential for user satisfaction. At the same time, packaging design must evolve as recyclability becomes a decisive factor. The solution lies in mono-material packaging concepts that avoid virgin plastics – an approach that must also extend to integrated tear tape solutions.



## Introducing tesa® 51334 and tesa® 51344

At tesa, we aim to develop more sustainable adhesive solutions and products. All paper-based tear tapes tick the following boxes when it comes to sustainable aspects:

- Designed for recycling\*: disposable with the board material (Cepi recyclability laboratory test method, version 3)
- Paper backings from sustainably managed forests
- Solvent-free coating processes
- 100% recycled paper core

All four tapes enable smooth, reliable opening of light- to medium-weight corrugated boxes, cartons, and mailing bags. Seamlessly integrated into appealing packaging designs, they can be recycled together with the packaging – without compromising on user experience.



This icon identifies our more sustainable products  
Scan this code or click to learn more!



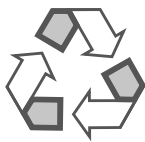
\* Fibre-based packaging with our paper-based adhesive tape solutions is classified as technically recyclable in a recycling mill with conventional process (4evergreen alliance: 4evergreen Recyclability Evaluation Protocol Part I for fibre-based packaging, 4evergreenforum.eu).



Integrated into a wide range of packaging designs, these tape solutions enable effortless opening – without the need for additional tools or equipment. Innovative, high-strength paper backings combined with a high-tack adhesive ensure a secure and reliable bond, even on corrugated board with high recycled content. Our tapes can be applied in-line during the corrugated board manufacturing process and have been successfully tested on market-leading applicators from Wellpack and MuK. For box converting and finishing, all solutions are also compatible with standard offline applicator systems.

Contact your tesa® sales representative to explore your specific application requirements to identify the ideal tesa® paper-based tear tape solution.

### Main benefits at a glance



**Meet sustainability targets:**  
Product design helps to achieve mono-material packaging targets.



**Proven processability:**  
Successfully tested on market-standard tape applicators with smooth unwinding.

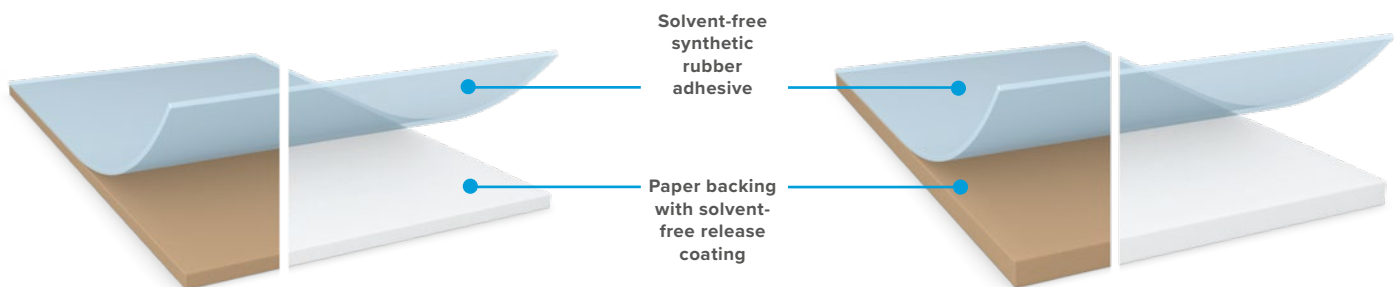


**Reliable performance:**  
Strong paper backings and high adhesion ensure safe and end-user friendly opening performance.



**Aesthetic appeal:**  
Positive unboxing experience combined with a clean visual appearance for your final packaging.

### Technical data



Product	Total thickness [µm]	Color	Backing	Adhesive	Tensile strength [N/cm]	Elongation at break [%]
tesa® 51334 PV0	180	●	Paper	Synthetic rubber	110	5
tesa® 51334 PV1	160	○	Paper	Synthetic rubber	100	4
tesa® 51344 PV0	220	●	Paper	Synthetic rubber	145	12
tesa® 51344 PV1	200	○	Paper	Synthetic rubber	140	13

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All technical information and data above mentioned are provided to the best of our knowledge on the basis of our practical experience. They shall be considered as average values and are not appropriate for a specification. Therefore tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. The user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.

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